

# Hawaii



## Hawaii Organizations and Consumers are Saving Money and Protecting the Environment with ENERGY STAR®

### Benefits

- Hawaii businesses and residents will save more than \$500 million through investments already made in ENERGY STAR qualified products, homes, and buildings.
- The investments in Hawaii already made through ENERGY STAR will prevent the emissions of 1.4 million metric tons of greenhouse gases, equivalent to eliminating the emissions from more than 900,000 vehicles.
- If Hawaii organizations and consumers pursued all opportunities for profitable energy efficiency improvements through ENERGY STAR, current savings could grow 4-fold.

### Highlights

- Hawaii is home to 25 companies and public entities participating in ENERGY STAR, 4 of which are small businesses. Others include:
  - 1 local government
  - 1 school district
  - 13 companies that build, provide 3<sup>rd</sup>-party testing of, or promote ENERGY STAR qualified homes
- Consumers can purchase ENERGY STAR qualified products at some 50 locations across the state.
- About 10,000 Hawaii homes have earned the ENERGY STAR and offer families greater savings and comfort than those built to code.
- 95 buildings (over 33 million square feet) in Hawaii have been rated for energy efficiency using EPA's energy performance rating system.
- 14 buildings have earned the ENERGY STAR for superior efficiency, including 3 hotels and 10 office buildings. These buildings typically use 35% less energy than average buildings.
- Hawaii is leading the way in energy efficiency by participating in the ENERGY STAR Challenge to improve the efficiency of its buildings by 10% or more.
- The Governor declared October 4, 2006, ENERGY STAR Change a Light Day. If every household in Hawaii changed one incandescent bulb to an ENERGY STAR qualified compact fluorescent light bulb, Hawaii consumers would save up to 22 million kWh of electricity and \$4 million in energy costs per year.
- The Hawaii Energy Office co-sponsored a seminar titled "How to Design, Build, and Sell ENERGY STAR Homes with the Hawaii Equivalency Program" in 2005 in cooperation with Hawaiian Electric Company and the American Institute of Architects Honolulu chapter.

## Examples of ENERGY STAR Partners Protecting the Environment

### State of Hawaii

- Ranks fifth in the nation in total energy cost savings, more than \$22 million annually. The savings from the 14 ENERGY STAR labeled buildings in Hawaii average about \$1.6 million per building.
- Promotes EPA's energy performance rating system to public and private institutions with which it works, focusing on the hospitality sector.
- Provides training to schools and governments on using ENERGY STAR online tools and resources to measure and track energy use and identify buildings that offer the greatest opportunity for improvement.
- Awarded a \$15,000 grant to promote the purchase of ENERGY STAR qualified products for public housing and other government agencies.

### Key ENERGY STAR Partners Transforming the Residential Market

- As a percentage of single-family, site-built housing starts, market penetration in Hawaii for ENERGY STAR new homes is greater than 20% (national average is 12%).
- 7 Hawaii companies are building ENERGY STAR qualified homes.
- The most active home builders in Hawaii are Actus Lend Lease, LLC, Betsill Brothers Construction, and Sonny Ventures, LLC.
- Hawaiian Electric Company, Inc., Maui Electric Company, Limited, and Hawaii Electric Light Company, Inc., are actively promoting ENERGY STAR qualified homes.

### Prince Kuhio Kalanianoʻle Federal Building/Courthouse

- Saves about \$200,000 annually in electricity costs as a result of investments in energy efficiency.
- Earned the ENERGY STAR label with a rating of 99 on a scale of 100.
- Retrofitted the lighting system with high efficiency T-8 fluorescent lamps and occupancy sensors and replaced the building's chiller with a more efficient model.

### Waikiki Beach Marriott Resort and Spa

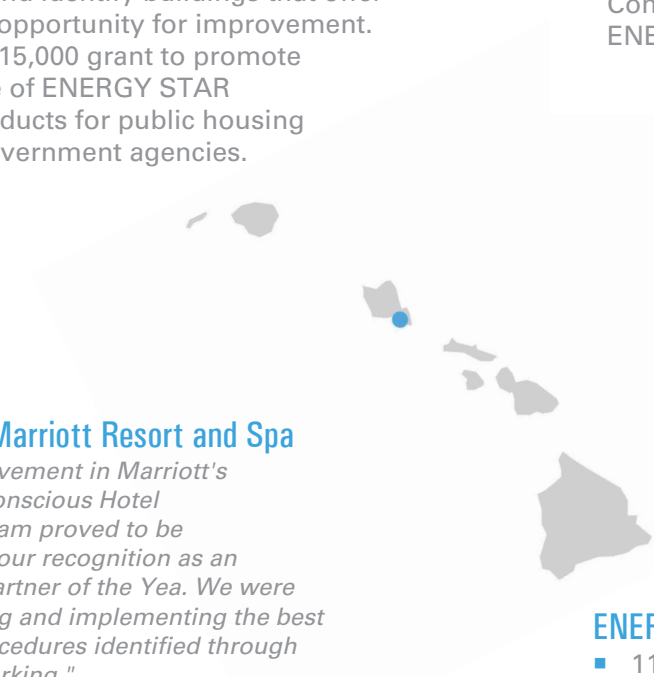
*"Our strong involvement in Marriott's Environmental Conscious Hotel Operations program proved to be advantageous in our recognition as an ENERGY STAR Partner of the Year. We were already promoting and implementing the best practices and procedures identified through internal benchmarking."*

- Gerald Okamoto, Director of Engineering

- Invested more than \$1 million in energy improvements that produce annual savings of \$350,000.
- Improvements included installing ENERGY STAR qualified lighting fixtures and replacing aging air conditioning units with ENERGY STAR models.
- Implementing the Marriott-wide effort to help improve the environment and control energy costs. Used Marriott's Energy Conservation Program Resource Guide to train hotel engineers and managers to actively explore innovative strategies for energy management.

### ENERGY STAR Labeled Buildings in Hawaii

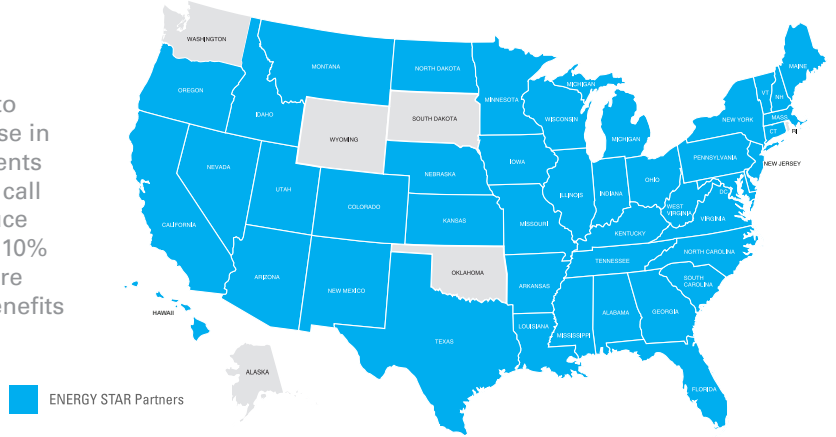
- 1132 Bishop Street, Honolulu
- Alexander & Baldwin, Inc., Honolulu
- ALII Place, Honolulu
- Ambulatory Care Clinic, Honolulu
- Bishop Square, Honolulu
- Central Pacific Plaza, Honolulu
- First Hawaiian Center, Honolulu
- Kapolei State Building, Kapolei
- Pacific Guardian Center, Honolulu
- Prince Kuhio Kalanianoʻle Federal Building/Courthouse, Honolulu
- Sheraton Princess Kaiulani Hotel, Honolulu
- The Sheraton Waikiki and Royal Hawaiian Hotel, Honolulu
- Topa Financial Center, Honolulu
- Waikiki Beach Marriott Resort and Spa, Honolulu



# How States are Working with ENERGY STAR

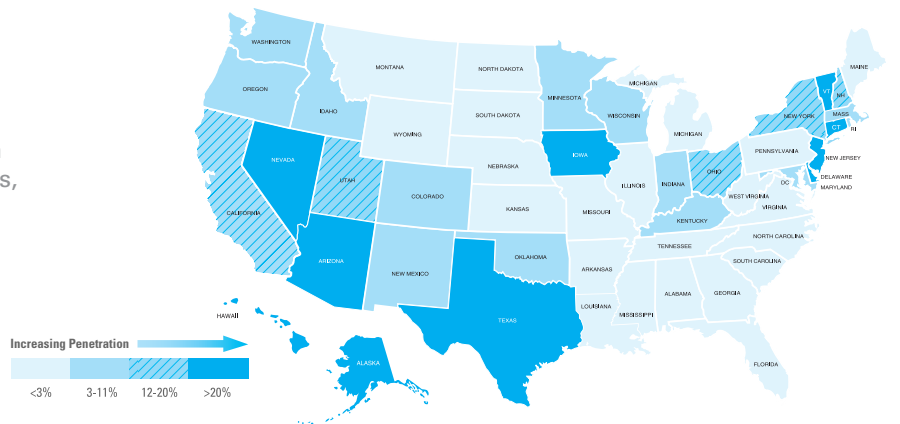
## ENERGY STAR State Partners

More than 40 states are leveraging ENERGY STAR to improve energy efficiency and reduce the energy use in their states. For example, almost 30 state governments are participating in the ENERGY STAR Challenge, a call to action for building owners and operators to reduce energy use across their entire building portfolio by 10% or more. These and other efforts by state partners are helping to bring the financial and environmental benefits of energy efficiency to their states.



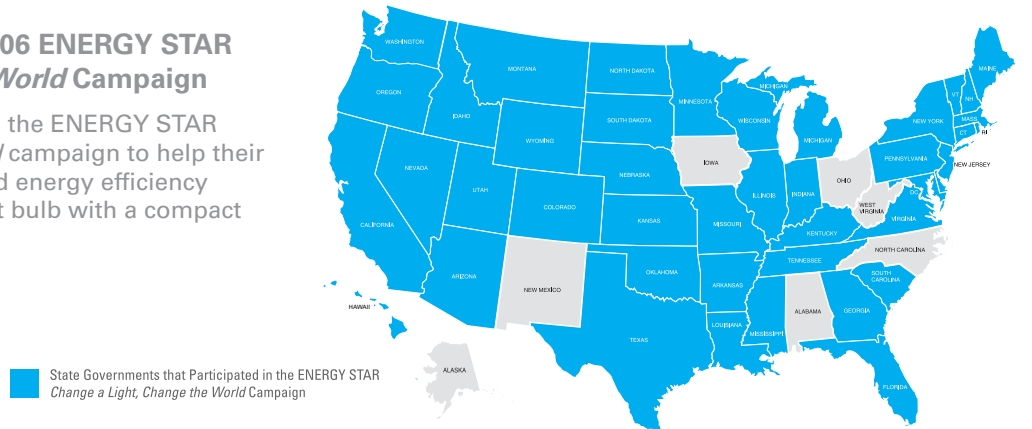
## ENERGY STAR Qualified New Homes Gaining Market Share

More than one in 10 new homes built in the United States earns the ENERGY STAR, but in 10 states and more than 20 metropolitan areas, market penetration is greater than 20%.



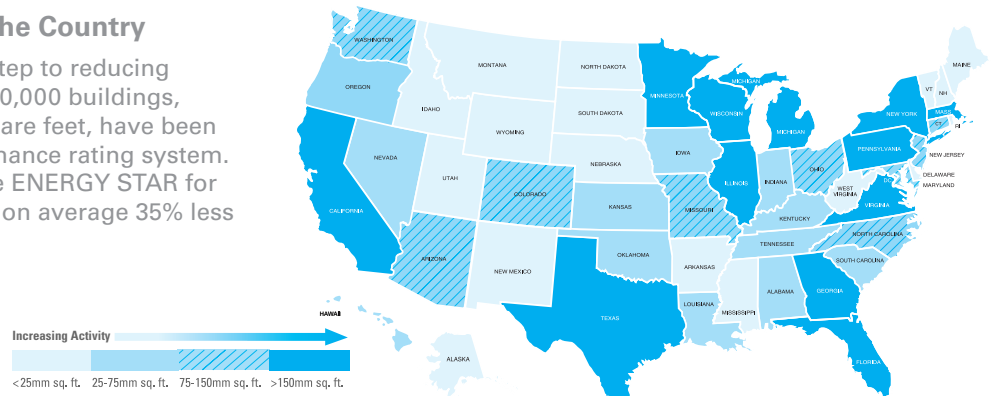
## States Participating in the 2006 ENERGY STAR Change a Light, Change the World Campaign

State governments are promoting the ENERGY STAR *Change a Light, Change the World* campaign to help their residents take the first step toward energy efficiency by replacing an incandescent light bulb with a compact fluorescent light bulb (CFL).



## Benchmarking Activity Across the Country

Benchmarking is an important first step to reducing a building's energy use. More than 30,000 buildings, representing more than 5 billion square feet, have been assessed using EPA's energy performance rating system. Of those, about 10% have earned the ENERGY STAR for superior energy performance, using on average 35% less energy relative to typical buildings.





# ENERGY STAR

Since its inception by the U.S. Environmental Protection Agency (EPA) in 1992, ENERGY STAR has helped individuals and organizations across the country adopt cost-effective, energy-efficient technologies and practices, better manage their energy costs, and help protect our environment. More than 9,000 organizations have partnered with ENERGY STAR to bring energy efficiency to their customers, the public, and themselves; and the results are adding up. Americans have purchased more than 2 billion ENERGY STAR qualified products, and thousands of companies have used EPA's guidelines to manage their energy more strategically. In 2006 alone, Americans, with the help of ENERGY STAR, prevented 37 million metric tons of greenhouse gas emissions—equivalent to eliminating the emissions from 25 million vehicles—and saved about \$14 billion on their utility bills, all while helping to grow the economy.

## ENERGY STAR for Consumers

Whether consumers are looking to replace old appliances, remodel their homes, buy a new house, or get the most from the equipment they have, ENERGY STAR can help. ENERGY STAR is the government-backed symbol for energy efficiency, providing credible and objective information on which consumers can rely to make well-informed decisions. The U.S. Department of Energy (DOE) has partnered with EPA since 1996 to bring ENERGY STAR qualified products to consumers. By choosing ENERGY STAR, consumers can save up to 30% on their energy bills—about \$600 a year—and enjoy the quality, performance, and comfort they expect.

Consumers can find the ENERGY STAR label on over 44,000 individual product models across more than 50 product categories, including appliances, home electronics, office equipment, heating and cooling equipment, lighting, and more. These products use up to 90% less energy compared to standard models. New homes can also earn the ENERGY STAR, and the Home Performance with ENERGY STAR program helps homeowners retrofit their existing homes for improved energy efficiency.

## ENERGY STAR for Businesses and Organizations

Many businesses and organizations can save up to 30% on energy bills through improved energy management practices and building upgrades. EPA offers its ENERGY STAR partners—those organizations that have committed to energy efficiency improvements—a host of tools and guidance, including proven energy management strategies and standardized management tools to help them achieve their goals.

EPA encourages all organizations to assess the energy performance of their buildings, set goals for improvement, and track their progress through its ENERGY STAR Challenge. And EPA offers a national energy performance rating system for buildings (providing building-level energy efficiency scores on a scale from 1 to 100) to help them do this. More than 30,000 buildings have been assessed, thousands of buildings have been improved, and more than 3,200 buildings (and 20 industrial facilities) have earned the ENERGY STAR. The ENERGY STAR buildings offer excellent real-life examples for others, using 35% less energy compared to typical buildings—and about 400 of them use 50% less energy.

*For more information about ENERGY STAR, please visit [www.energystar.gov](http://www.energystar.gov).*